

METALSHIELD[®] QD ENAMEL Topcoat

Quick Dry Alkyd Gloss Enamel

LI 006

- FEATURES**
- HIGH GLOSS FINISH
 - RAPID DRY & RECOAT
 - SINGLE PACK
 - EXTENSIVE COLOUR RANGE USING COLORFAST[®] TINT SYSTEM
 - LIMITED RANGE OF TOUCHUP SPRAYPAKS AVAILABLE

USES METALSHIELD[®] QD ENAMEL Topcoat is ideal as a coating for steel in mild and commercial environments. The preferred coating where a hard wearing, fast dry, easy repair and recoat finish is required. Used to paint machinery and equipment such as cranes, trailers, pumps, compressors and as a general purpose fast dry enamel.

SPECIFICATIONS

RESISTANCE GUIDE

HEAT RESISTANCE	Up to 80°C dry heat.	ALKALIS	Not recommended where fumes, splash or spillage may occur.
WEATHERABILITY	On exterior exposure some chalking may also occur. This will not detract from the protective properties of the coating.	SALTS	Poor resistance to most salt solutions.
SOLVENTS	Resists mineral turpentine. Limited resistance to strong solvents.	WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure.
ACIDS	Not recommended where fumes, splash or spillage may occur.	ABRASION	Good abrasion resistance when fully cured.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Quick dry alkyd enamel	APPLICATION CONDITIONS	Min	Max
FINISH	High Gloss	Air Temperature	10°C	40°C
COLOUR	An extensive range of tinted and factory packed colours. Selected touchup spraypaks also available.	Substrate Surface Temperature	10°C	40°C
COMPONENTS	One	Relative Humidity		85%
SOLIDS BY VOLUME	38%			
VOC LEVEL	<510 g/L (White)			
FLASH POINT	-1°C			
POT LIFE	Not applicable			
MIXING RATIO (V/V)	Single pack			
THINNER	Brush 965-H0010 Metalshield [®] Brush Thinner			
	Spray 965-H0009 Metalshield [®] Spray Thinner			
PRODUCT CODE	371-63001 White/Light Base			
	371-63002 Deep Base			
	371-63003 Clear Base			
	371-00070 Black			
	371-39141 Golden Yellow			
	371-88680 Signal Red			
		SUITABLE SUBSTRATES		
		Suitably primed mild steel, aluminium, zinc coated steel, concrete, fibreglass or MDF.		
		PRIMERS		
		Alkyd based and most two pack primers.		
		APPLICATION METHODS		
		Conventional, airless spray or air assisted spray.		

Drying characteristics at 40 microns dry film thickness

Temperature	Humidity	Touch	Handle	Full Cure	Overcoat Min*	Max
25° C	50%	20 Minutes	2 Hours	7 Days	24 Hours	Indefinite

These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

* Overcoating can occur up to 4 hours after the initial application or after 24 hours. Failing to observe these limits may result in "frying". If in doubt test a small inconspicuous area first. Allow longer times under cold conditions.

TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 9.5 sq. metres per litre corresponds to 40 microns dry film thickness assuming no losses. Practical spreading rates will vary depending on such factors as method and conditions of application and surface roughness.

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TYPICAL SYSTEMS

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE	SYSTEM		DRY FILM THICKNESS
STEEL Mild Environments	Hand &/or Power tool clean AS1627.2:St 3 Abrasive blast AS1627.4 Class 1	1st Coat	METALSHIELD® HIGH BUILD ZP Primer	50 Microns
		2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
		1st Coat	METALSHIELD® QUICK DRY Primer	35 Microns
		2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
GALVANISED*, ALUMINIUM, FIBREGLASS	Clean, degrease and abrade surface	1st Coat	METALSHIELD® ETCH Primer	25 Microns
		2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
		3rd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns

* Note - this system is only recommended over galvanised mild steel in mild environments.

SURFACE PREPARATION METALSHIELD® QD ENAMEL Topcoat is designed for application to suitably primed surfaces, (typically METALSHIELD® primers) or prepared sound existing coatings. Suitable primed substrates include steel, aluminium, zinc coated steel, concrete, fibreglass or MDF. It is recommended that specifiers follow the guidelines for surface preparation from the product data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials.

APPLICATION Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Ensure correct colour has been supplied before use - DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF AN INCORRECT COLOUR. Box all containers before use to ensure colour consistency. Remix thoroughly before using.

BRUSH/ROLLER Suitable for small areas only. Apply even coats of the material to the prepared surface. When brushing and rolling additional coats may be required to attain the specified thickness.

Thin if necessary with up to 100 ml/litre of METALSHIELD® Brush Thinner (965-H0010) or METALSHIELD® Spray Thinner (965-H0009) to ease application.

CONVENTIONAL SPRAY Thin up to 150 ml/litre with METALSHIELD® Spray Thinner (965-H0009) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

Typical Set-up

Graco Delta Gun:	1.4mm (239542)
Pressure at Pot:	70-100 kPa (10-15 p.s.i.)
Pressure at Gun:	380-410 kPa (55-60 p.s.i.)

TOUCHUP SPRAYPAKS For all application instructions and properties of the Touchup Spraypaks refer to the details located on the back of the aerosol can. Note – a slight colour variation may be experienced compared to the standard product due to film build, application methods and technique.

AIRLESS SPRAY Standard airless spray equipment such as a Graco 30:1 President with a fluid tip of 13-15 thou (0.33-0.38mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 50 ml/litre of METALSHIELD® Spray Thinner (965-H0009) may be added to ease application.

PRECAUTIONS This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux® Australia. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Overcoating can occur up to 4 hours after the initial application or after 24 hours. Failing to observe these limits may result in "frying" or wrinkling. If in doubt test a small inconspicuous area first. Allow longer times under cold conditions.

CLEAN UP Clean all equipment with METALSHIELD® Spray Thinner (965-H0009) or METALSHIELD® Brush Thinner (965-H0010) immediately after use.

OVERCOATING Aged coating should be tested for lifting by a method appropriate to the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 - 1,500 p.s.i.) to remove loosely adhering chalk and dust. Abrasion may be required depending on surface condition. Apply a further coat of METALSHIELD® QD ENAMEL Topcoat.

SAFETY PRECAUTIONS **Read Data Sheet, Safety Data Sheet and any precautionary labels on containers.**

STORAGE Store as required for a flammable liquid Class 3 in a bonded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.

HANDLING As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.

FLAMMABILITY This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO₂ or dry chemical powder. On burning will emit toxic fumes.

WELDING Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

SAFETY DATA SHEET is available from Dulux Customer Service (Phone Australia 132 377 or New Zealand 0800 800 424)

www.duluxprotectivecoatings.com.au

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PACKAGING	Available in 1, 4 and 15 litre pails Available in 300g Aerosols
TRANSPORTATION WEIGHT	1.2 kg/litre
DANGEROUS GOODS	Class 3 UN 1263 (Aerosols Class 2 UN 1950)

Any advice, recommendation, information, assistance or service provided by DULUX Australia in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this sheet so long as applications and application procedures are as recommended. Specific advice should be sought from Dulux for application in coastal areas and for large projects to ensure proper performance.